HKBK COLLEGE OF ENGINEERING

22 YEARS OF EXCELLENCE

INFORMATION SCIENCE AND ENGINEERING

VOLUME 12 ..... AUG 2019

SYRITZ

Syritz is an affable appoa-ch by the department of Information Science and Engineering to illuminate the Professors and tutees about the activities conducted by the department under the guidance of our respected HOD.

Its idea is to provide unique agitation and eye catching experience as it motivates not only teaching and non-teaching staffs but armature pupils also to showcase their talent from both academic as well as cultural perspective .

Syritz brings you the joy of knowing our depart-ment better.

Thank You!

About Department

Established in the year 1998, the programme of Information Science & Engineering aims at carving a niche in producing In-formation Technology professionals who will be ready to meet the persona of the corporate world. The department purports to have dexterous mentors adept at molding the student talent pool. A team of well qualified faculty members under the leadership of Dr. Syed Mustafa navigates issuing priceless guidance and tapping the potential of student.

Mission:

To impart high quality engineering education in the field of Information Science & Technology with strong theoretical and extensive practical training methodologies through innovation and research to make world class engineers

Vision:

To train skilled and ethical professionals with an ability to plan, design, develop, organize and man- age modern and traditional information systems with the knowledge of Information technologies,services and organizations globally

Mr. Faiz Mohammed
Director
HKBK group of institution

->DON'T EDUCATE YOUR CHILDREN TO BE RICH.
EDUCATE THEM TO BE HAPPY, SO THEY KNOW THE VALUE OF THINGS, NOT THE PRICE

"At HKBK college of engineering, our vision is based on hard work, dedication, discipline and determination with a strong emphasis on teamwork & shouldering high level of responsibility. This culture allows out students not only adopt themselves to the present day challenge but also accept individual responsibility to the family, society and nation. The institute has set specific objectives and activity plans for achieving excellence in all areas of quality technical education. We strongly believe in achieving academic excellence through high standanis in teaching, careens guidance and moulding team players. At HKBK college of Engineering, we emphasise on creating technical competence and readily employable technocrats and managers for the corporate organizations. The testimony is that the institution has emerged as a one stop destination for meeting the technical man power need of corporate of repute and the country's prestigious defense forces."

From The Head Of The Department -ISE

Dr.Syed Mustafa

As one more year moves close, and we at the department of Information science and engineering ensures that talents and abilities of students are broadcasted. We identify student's potential and try to bring out the best in them. The hard work done by the department in order to accomplish the achievements and setting new milestones for other is surely remarkable and has to be recognized by providing a platform to showcase their talents and celebrate the joy of the department.

This issue acknowledges the commendable commitments and accomplishments of the students and faculty of ISE department in different fields which have been written down in" Syritz", which aims at reflecting the inventive technical & non-technical qualities of the students.

IN THIS ISSUE

REGULARS

TECHNICAL AFFAIRS

NON -TECHNICAL AFFAIRS

Internet Of Things(IOT)

Internet of Things (IOT) is the network of physical, devices accessed through the Internet. These objects contain embedded technology to interact with internal states or the external environment. The term IOT is first used by Kevin Ashton in year 1999.Here things are known as object, end nodes, remotes.. A basic example of such objects includes thermostats and HVAC (Heating, Ventilation, and Air Conditioning) monitoring and control systems that enable smart homes. There are also other domains and environments in which the IoT can play a remarkable role and improve the quality of our lives. These applications include transportation, healthcare, industrial automation, and emergency response to natural and man-made disasters where human decision making is difficult. The IoT enables physical objects to see, hear, think and perform jobs by having them “talk” together, to share information and to coordinate decisions. The IoT transforms these objects from being traditional to smart by exploiting its underlying technologies such as ubiquitous and pervasive computing, embedded devices, communication technologies, sensor networks, Internet protocols and applications. Smart objects along with their supposed tasks constitute domain specific applications (vertical markets) while ubiquitous computing and analytical services form application domain independent services (horizontal markets). Fig. 1 illustrates the overall concept of the IoT in which every domain specific application is interacting with domain independent services, whereas in each domain sensors and actuators communicate directly with each other.

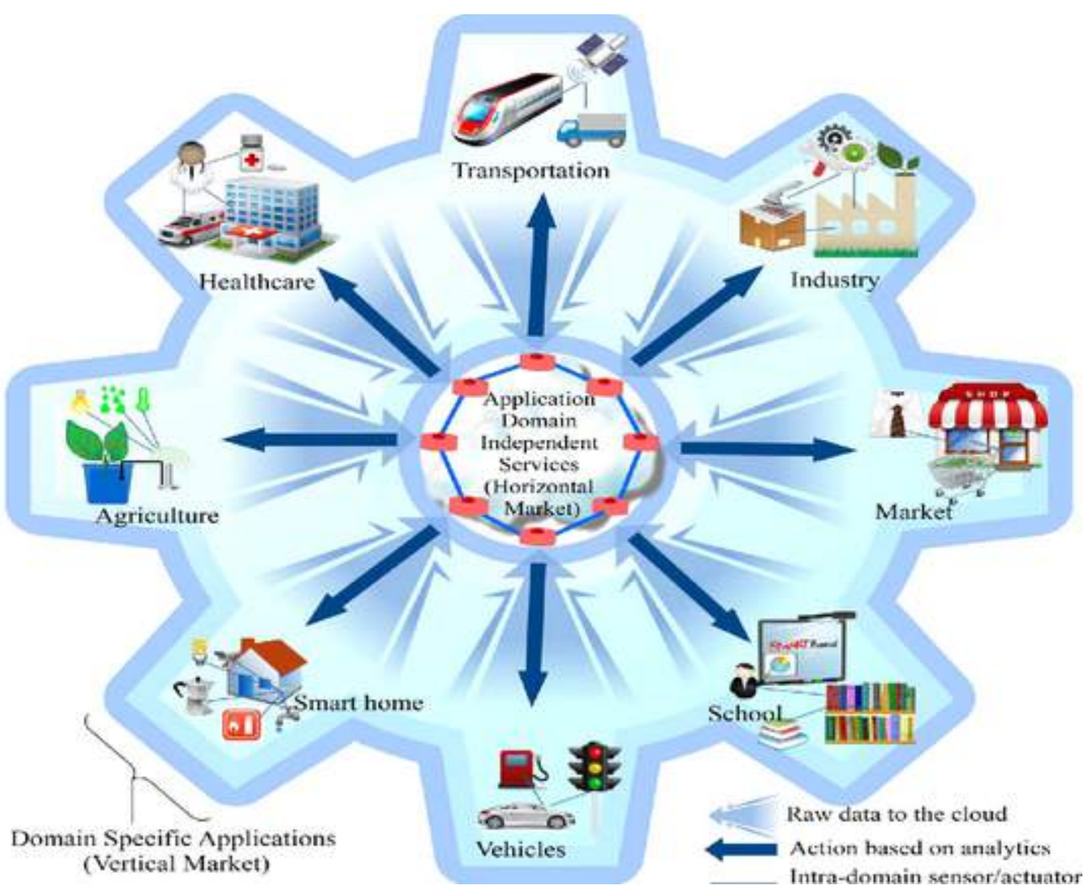


Fig. 1. The overall picture of IoT emphasizing the vertical markets and the horizontal integration between them.

Over time, the IoT is expected to have significant home and business applications, to contribute to the quality of life and to grow the world’s economy. For example, smart-homes will enable their residents to automatically open their garage when reaching home, prepare their coffee, control climate control systems, TVs and other appliances. In order to realize this potential growth, emerging technologies and innovations, and service applications need to grow proportionally to match market demands and customer needs. Furthermore, devices need to be developed to fit customer requirements in terms of availability anywhere and anytime. Also, new protocols are required for communication compatibility between heterogeneous things (living things, vehicles, phones, appliances, goods, etc.).Moreover, architecture standardization can be seen as a backbone for the IoT to create a competitive environment for companies to deliver quality products. In addition, the traditional Internet architecture needs to be revised to match the IoT challenges. For example, the tremendous number of objects willing to connect to the Internet should be considered in many underlying protocols. In 2010, the number of Internet connected objects had surpassed the earth’s human population. Therefore, utilizing a large addressing space (e.g., IPv6) becomes necessary to meet customer demands for smart objects. Security and privacy are other important requirements for the IoT due to the inherent heterogeneity of the Internet Connected objects and the ability to monitor and control physical objects. Furthermore, management and monitoring of the IoT should take place to ensure the delivery of high-quality services to customers at an efficient cost.

IOT Architechure

The IoT should be capable of interconnecting billions or trillions of heterogeneous objects through the Internet, so there is a number of proposed architectures has not yet converged to a reference model. Meanwhile, there are some projects like IoT-A which try to design a common architecture based on the analysis of the needs of researchers and the industry. Fig. 2 illustrates some common architectures among them is the 5-layer model is discussed here. Next, we provide a brief discussion on these five layers.

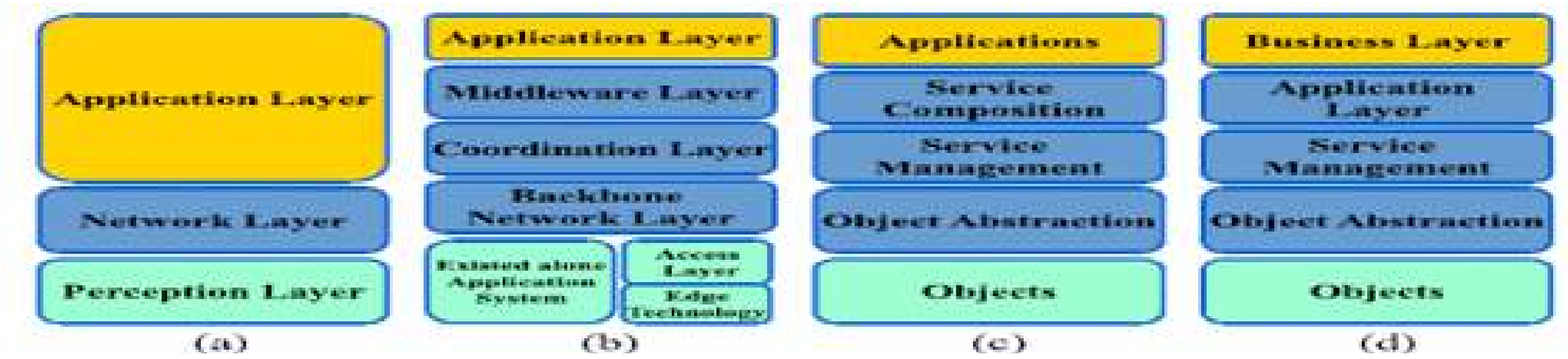


Fig. 2 The IoT architecture. (a) Three-layer. (b) Middle-ware based. (c) SOA based. (d) Five-layer.

Three-layers

Objects Layer:
The first layer, the Objects (devices) or perception layer, represents the physical sensors of the IoT that aim to collect and process information. This layer includes sensors and actuators to perform different functionalities such as querying location, temperature, weight, motion, vibration, acceleration, humidity, etc. Standardized plug-and-play mechanisms need to be used by the perception layer to configure heterogeneous objects . The perception layer digitizes and transfers data to the Object Abstraction layer through secure channels. The big data created by the IoT are initiated at this layer.

Object Abstraction Layer:
Object Abstraction transfers data produced by the Objects layer to the Service Management layer through secure channels .Data can be transferred through various technologies such as RFID, 3G,GSM,UMTS,WiFi,Bluetooth LowEnergy, infrared, ZigBee, etc. Furthermore, other functions like cloud computing and data management processes are handled at this layer .

Service Management Layer:
Service Management or Middleware (pairing) layer pairs a service with its requester based on addresses and names. This layer enables the IoT application programmers to work with heterogeneous objects without consideration to a specific hardware platform. Also, this layer processes received data, makes decisions, and delivers the required services over the network wire protocols.

Application Layer

The application layer provides the services requested by customers. For instance, the application layer can provide temperature and air humidity measurements to the customer who asks for that data. The importance of this layer for the IoT is that it has the ability to provide high-quality smart services to meet customers' needs. The application layer covers numerous vertical markets such as smart home, smart building, transportation, industrial automation and smart healthcare.

Business Layer

The business (management) layer manages the overall IoT system activities and services. The responsibilities of this layer are to build a business model, graphs, flowcharts, etc. based on the received data from the Application layer. It is also supposed to design, analyze, implement, evaluate, monitor, and develop IoT system related elements. The Business Layer makes it possible to support decision-making processes based on Big Data analysis. In addition, monitoring and management of the underlying four layers is achieved at this layer. Moreover, this layer compares the output of each layer with the expected output to enhance services and maintain users' privacy.

IOT Elements

Understanding the IoT building blocks helps to gain a better insight into the real meaning and functionality of the IoT. In the following sections we discuss six main elements needed to deliver the functionality of the IoT as illustrated in Fig.3.

Fig. 3 The IoT elements.

- **Identification:**

Identification is crucial for the IoT to name and match services with their demand. Many identification methods are available for the IoT such as electronic product codes (EPC) and ubiquitous codes (uCode) . Furthermore, addressing the IoT objects is critical to differentiate between object ID and its address. Object ID refers to its name such as "T1" for a particular temperature sensor and object's address refers to its address within a communications network. In addition, addressing methods of IoT objects include IPv6 and IPv4. 6LoWPAN provides a compression mechanism over IPv6 headers that make IPv6 addressing appropriate for low power wireless networks. Distinguishing between object's identification and address is imperative since identification methods are not globally unique, so addressing assists to uniquely identify objects .In addition, objects within the network might use public IPs and not private ones. Identification methods are used to provide a clear identity for each object within the network.

- **Sensing:**

The IoT sensing means gathering data from related objects within the network and sending it back to a data warehouse, database, or cloud. The collected data is analyzed to take specific actions based on required services. The IoT sensors can be smart sensors, actuators or wearable sensing devices. For example, companies Like Wemo, revolv and Smart Things offer smart hubs and mobile applications that enable people to monitor and control thousands of smart devices and appliances inside buildings using their smart phones .Single Board Computers (SBCs) integrated with sensors and built-in TCP/IP and security functionalities are typically used to realize IoT products (e.g., Arduino Yun, Raspberry PI, BeagleBone Black, etc.). Such devices typically connect to a central management portal to provide the required data by customers.

- **communication:**

The IoT communication technologies connect heterogeneous objects together to deliver specific smart services. Typically, the IoT nodes should operate using low power in the presence of lossy and noisy communication links. Examples of communication protocols used for the IoT are Wi-Fi, Bluetooth, IEEE 802.15.4, Z-wave, and LTE-Advanced. Some specific communication technologies are also in use like RFID, Near Field communication (NFC) and ultra-wide bandwidth (UWB). RFID is the first technology used to realize the M2M concept (RFID tag and reader). The RFID tag represents a simple chip or label attached to provide object's identity. The RFID reader transmits a query signal to the tag and receives reflected signal from the tag, which in turn is passed to the database. The database connects to a processing center to identify objects based on the reflected signals within a (10 cm to 200 m) range [27]. RFID tags can be active, passive or semi-passive/active. Active tags are powered by battery while passive ones do not need battery. Semi-passive/active tags use board power when needed. The NFC protocol works at high frequency band at 13.56MHz and supports data rate up to 424 kbps. The applicable range is up to 10 cm where communication between active readers and passive tags or two active readers can occur . The UWB communication technology is designed to support communications within a low range coverage area using low energy and high bandwidth whose applications to connect sensors have been increased recently. Another communication technology is Wi-Fi that uses radio waves to exchange data amongst things within 100 m range . Wi-Fi allows smart devices to communicate and exchange information without using a router in some ad hoc configurations. Bluetooth presents a communication technology that is used to exchange data between devices over short distances using short-wavelength radio to minimize power consumption. Recently, the Bluetooth special interest group (SIG) produced Bluetooth 4.1 that provides Bluetooth Low Energy as well as high-speed and IP connectivity to support IoT [32]. The IEEE 802.15.4 standard specifies both a physical layer and a medium access control for low power wireless networks targeting reliable and scalable communications.

• Computation:

Processing units (e.g., microcontrollers, microprocessors, SOCs, FPGAs) and software applications represent the “brain” and the computational ability of the IoT. Various hardware platforms were developed to run IoT applications such as Arduino, UDOO, Friendly ARM, Intel Galileo, Raspberry PI, Gadgeteer, BeagleBone, Cubieboard,Z1,WiSense, Mulle, and T-Mote Sky. Furthermore, many software platforms are utilized to provide IoT functionalities. A The IoT architecture. (a) Three-layer. (b) Middle-ware based. (c) SOA based. (d) Five-layer.mong these platforms, Operating Systems are vital since they run for the whole activation time of a device. There are several Real-Time Operating Systems (RTOS) that are good candidates for the development of RTOS-based IoT applications. For instance, the Contiki RTOS has been used widely in IoT scenarios. Contiki has a simulator called Cooja which allows researcher and developers to simulate and emulate IoT and wireless sensor network (WSN) applications .TinyOS LiteOS and Riot OS also offer light weight OS designed for IoT environments. Moreover, some auto industry leaders with Google established the Open Auto Alliance (OAA) and are planning to bring new features to the Android platform to accelerate the adoption of the Internet of Vehicles (IoV) paradigm . Cloud Platforms form another important computational part of the IoT. These platforms provide facilities for smart objects to send their data to the cloud, for big data to be processed in real-time, and eventually for end-users to benefit from theknowledge extracted from the collected big data. There are a lot of free and commercial cloud platforms and frameworks available to host IoT services.

• Services:

Overall, IoT services can be categorized under four classes: Identity-related Services, Information Aggregation Services,Collaborative-Aware Services and Ubiquitous Services. Identity-related services are the most basic and important services that are used in other types of services. Every application that needs to bring real world objects to the virtual world has to identify those objects. Information Aggregation Services collect and summarize raw sensory measurements that need to be processed and reported to the IoT application.Collaborative-Aware Services act on top of Information Aggregation Services and use the obtained data to make decision and react accordingly. Ubiquitous Services, however, aim to provide Collaborative-Aware Services anytime they are needed to anyone who needs them anywhere. With this categorization, we review some applications of the IoT in the following paragraphs. The ultimate goal of all IoT applications is to reach the level of ubiquitous services. However, this end is not achievable easily since there are a lot of difficulties and challenges that have to be addressed. Most of the existing applications provide identity related, information aggregation, and collaborative-aware services. Smart healthcare and smart grids fall into the information aggregation category and smart home, smart buildings, intelligent transportation systems (ITS), and industrial automation are closer to the collaborative-aware category. Smart healthcare plays a significant role in healthcare applications through embedding sensors and actuators in patients and their medicine for monitoring and tracking purposes. The IoT is used by clinical care to monitor physiological statuses of patients through sensors by collecting and analyzing their information and then sending analyzed patient’s data remotely to processing centers to make suitable actions. For example, Masimo Radical-7monitors the patient’s status remotely and reports that to a clinical staff

• Semantics:

Semantic in the IoT refers to the ability to extract knowledge smartly by different machines to provide the required services. Knowledge extraction includes discovering and using resources and modeling information. Also, it includes recognizing and analyzing data to make sense of the right decision to provide the exact service. Thus, semantic represents the brain of the IoT by sending demands to the right resource. This requirement is supported by Semantic Web technologies such as the Resource Description Framework (RDF) and the Web Ontology Language (OWL)

Conclusion :

THE EMERGING IDEA OF THE INTERNET OF THINGS (IOT) IS RAPIDLY FINDING ITS PATH THROUGHOUT OUR MODERN LIFE, AIMING TO IMPROVE THE QUALITY OF LIFE BY CONNECTING MANY SMART DEVICES, TECHNOLOGIES, AND APPLICATIONS. OVERALL, THE IOT WOULD ALLOW FOR THE AUTOMATION OF EVERYTHING AROUND US.

Prof.SK JAMIL AHMED
Assistant Professor
Dept. of ISE

FLEXIBLE CAMERA

PROF.SHAGOUFTA TASKEEN
ASSISTANT PROFESSOR
DEPARTMENT OF ISE

Researchers at Columbia University developed a thin and flexible camera that can be wrapped around everyday objects to capture image that cannot be taken with conventional cameras.
a new camera that looks like a flat sheet of paper is so thin and flexible that it could be wrapped around everyday objects, such as desks,cars,street lights and even clothing, new research shows. the new device could help turn any surface into a camera, and the invention may lead to card size cameras that can flex in order to increase their field of view, the
scientist said. regular cameras take pictures from a single point in space,
but this new device instead seeks to capture image using a flat grid of miniature cameras-a bit like an insect's compound eye imagine wrapping it around a pole to get a 360 degree view of the world for security purpose or if you want your
office desk to be more intelligent, have a sheet on your table that could
analyze What sitting on it. The ultra flexible camera wouldn't be limited in its views the way conventional cameras are. And, if you can work this into clothing, it could help people how are visually impaired be more aware of their environment.

Shree Nayar a computer scientist at Colombia university and his colleague developed a flexible array that consists of nearly 1100 lenses made of silicon rubber by optimizing the geometrical proportion of the lenses and the material properties
of the sheet, the scientists found that this array could produces high quality images even when bent and twisted. the researchers tested how well their flexible lenses sheet created images by focusing light from all of its lenses into a single camera.
future research still needs to devise a pliable grid of light detecting image sensors to accompany each of its lenses and truly produces a camera. the researchers noted that, in principle, it is possible to fabricate a lens array the size of a credit card made of up of millions of lens. one day it may also may be possible to print both the lens and the sensors array together

Importance Of Language

-Tamim Ahmed
(1HK17IS082)

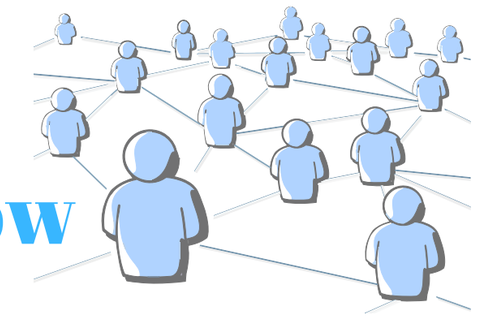
“When a people are enslaved, as long as they hold fast to their language it is as if they had the key to their prison.”

- Alphonse Daudet

As the above lines explains what vital role language plays in one’s life. To be more brief language is the base of your independence it gives you freedom to communicate with your society and also provides an individual identity of your own. India is a vast country and such diversity always astonishes people there are more than 22 registered languages and according to census board there are more than 19,500 languages spoken in India as mother tongues. A country with such diverse nature yet there are one or two common languages that binds us together.

According to me, as long as people understand the importance of the language none can mislead them. I believe today’s generation have lost the essence of the language, the way they speak reflects their definition of language they feel that it is nothing but is a way of expressing our thoughts and feelings to each other which is true to some extent. But if one understands the beauty of it, can become a great influencer of all time. People have lost the authenticity of the language and to be specific lets take an example of English as it is the most spoken language in India as well. This generation is an instant coffee generation who wants everything to be done real quick. People measure everything with time and maybe that is where they lost the creativity.

Even in technical world languages holds firm place, people often get rejected due to lack of communication skills and confidence. This is just because of their instant coffee nature. They are so desperate that they want it anyway and that too right now without even introspecting about what’s gone wrong. People should understand its importance not only about English but their mother tongue as well. I was also deprived with the importance of language. Until I ca me to south and witnessed the found of the regional languages they have, is simply remarkable, and is truly justified as they prefer their culture first and then the other things. May be that’s the reason they stand out of the crowd. So atlast I would like to conclude that pay some attention before speaking. As you speak you are defining your heritage and your culture.



How Do You Explain To A Ten-Year-Old How Information Is Passed Through Thin Air ?

Forget ten-year-olds, how would you explain that to an educated adult? How many of us really understand what goes on when you text your friend across the ocean and they get the ping, almost instantaneously! Allow me to entertain you with a little thought experiment.

When you press “send” on your favorite messaging app, where’s your message really going ? “Into the air,” you’d say, “like radio waves..” But let’s back up a bit. When you press send on WhatsApp, you’re essentially sending instructions to your mobile processor via tiny copper wires on a printed board circuit in your smartphone. Now, these instructions are essentially electrical impulses, right? And electrical impulses are just electrons flowing along the potential difference. How exactly does your message “jump” into thin air from being electron flows in copper wires? At one stage you had a circuit board that you could touch and feel and then suddenly you have radio waves in the invisible part of the spectrum, flying away into thin air at light speed. What’s in between is this odd looking device.

It’s an antenna, which translates to a “pole” in Latin. In simple speak, an antenna is a metal-tongued voodoo device that swallows electrical impulses and spits out radio waves. It is silent as the dead, but its screams can be heard for miles.

Specifically, a Wi-Fi antenna like in the picture, screams at 2.4 GHz (2 billion beats per second!) and spits out waves of length 12.5 centimeters. Unlike visible light, these waves can pass through walls, and even bend around the corners! Like perturbations in still water that radiate outward from the point of disturbance, the electron flows in an antenna cause perturbations in EM field which radiate out into space like EM waves. When you press “send” on your favorite messaging app, your mobile OS sets off a chain of events that ultimately encode the message as a careful choreography of electron dance.

This dance results in rhythmic ebbs and flows in the EM field in the surrounding space, which radiate outward towards a cell tower. The receiving antenna on the cell tower feels these ebbs and flows on its conducting surface, inducing an electron dance very similar to the one at the transmitter. This electron dance is again a set of electric impulses in tiny copper wires, which are decoded by the hardware at the cell tower. The decoded information is then carried on highthroughput cables for thousands of miles across countries, continents and even oceans to a cell tower near your friend across the ocean. From the tower to your friend’s phone is another wireless jump. And finally, your friend hears the familiar ping.

-MOHAMMED SAQIB
(1HK16IS051)

LG

LG (Life's good) Electronics is a South Korean multinational electronics company employing 82000 people around world wide
It is the most intellegent television and has google assistant and alexa built in.

KEY FEATURES:
Perfect black and breathtaking dobly version meets the A9 gen2 for intelligent processor and deep learning.An algorithm to deliver another level of realistic imagery like never before.
Efficient technology like beautiful ON/OFF, A television can take the ultimate in minimalism. This is a TV
that's there when you want it and disappears when you don't..

Sagar H
1HK17IS062

CRYPTOCURRENCY

Cryptocurrency is an internet-based medium of exchange which uses cryptographical functions to conduct financial transactions. Cryptocurrencies leverage blockchain technology to gain decentralization, transparency, and immutability.

The most important feature of a cryptocurrency is that it is not controlled by any central authority: the decentralized nature of the blockchain makes cryptocurrencies theoretically immune to the old ways of government control and interference.

Mohhamed Waseem
1HK17IS044

A SURVIVOR'S MUSING

NON TECHNICAL

Smiles are deceiving, happiness a mask
of lies,how long would
we breath with
no will to live. I can't help but
wonder that we're
the saddest generation the skies and
the earth have
ever met, It's true.
Melancholy in our veins, flowing
as thick blood,
doubts- an unrelenting paranoia ,
depression and anxiety, our best
friends.
"Depression is the side effect
of dying" ~ John Green.
I believed in the above
quote without giving
it a second thought
until a train
wreck knocked me off my feet. However,
currently I would
call depression a murderer, rather than a
side effect.
It effortlessly steals
our life in,
absolute silence.
Imagine being on a boat
too weak to carry your
weight in the
middle of an ocean. An outline of an
island seen on the brink
of horizon , seagulls calling
out in joy
from afar, and you're stuck
in the middle of nowhere. Just you
and the freezing cold water beneath
you and the
boat, a barrier
b/w you and
the water. At one point the boat gives
up and breaks . One moment you're
safe and next you collide
with the freezing liquid- splash!
First panic kicks
, adrenaline rushes
in your veins
and a thousand synapses going crazy.
Your instincts tell
you, to kick to jump , flail
your ,arms and
do anything to get to the
surface but, you get no where. Eventually lungs start to burn, you wanna breathe
- hope to breathe, delude yourself, that you can. Your lungs give up , takes a deep breath but, there's water trickling into your respiratory system. You gag , sputter and cough, It's more suffocation with
every breath and then
you sink. Lungs on fire,
a deep ache in the heart, mind
screaming and then
it ends. Just like that it's
all over, a peaceful numbness settles. No pain, no fear. No emotions. It's
a black abyss of nothingness.
Maybe it's the final acceptance of
your faith or acceptance of the end. Prehaps, this is what depression feels like.
Ages
of development of technology, economy
and science yet
depression or mental
health is a stigma
and taboo. Depression isn't faced
only by teenagers. It's a disease
and consumes everyone. The absolute worst things
to convey, to a person
in depression, is that "it's all in your head" or " it's a figment
of your imagination". How many times
have you asked
someone who confided
you in you to "
let it go?" . It's kinda like
sealing up a death sentence, crushing the tiniest
bit of hope they've . A final
shove from the edge
of the cliff, after which there's only free falling.

A Point of no return.
It's a struggle, a war within ourselves where peace of mind and sanity is caught in the crossfire. It's chaos in our brain,
voices that keep whispering every failure we've achieved ,
every negative feeling intensified. We keep falling on our knees and at one point we give up on standing again.
It's the silent good night prayer to never see the sunlight again.
Everything hurts. Pillows are soaked with tears. Our souls tearing apart inside slowly and painfully.
Depression is the constant planning to kill ourselves every moment. Wondering what works better a quick slit or popping pills or throwing ourselves off the terrace.
Plenty plans and many more goodbye notes, in some of which we blame others and apologizes in a few.

You might
wonder, why we do our plans fail? Many think
that suicide, is cowardice.
It isn't. One needs courage,
to even think of killing themselves. We do
notlack courage.
It's the hope that we might see a beautiful
morning, afterall every
stormy black night has a day. It's these, little
small moments of happiness that
anchor us. It's all that we're living for.The
struggle is real and there's absolutely nothing
beautiful in it. But don't you see, you're
not alone? There's always someone,
waiting and watching you like a
guardian angel
in the shadows, offering their hand
to hold on.
Hold on , dear. It'll be your saving grace".
They don't take your pain awa
y but they do make it better.

Ask for help. There's no shame in it. Don't
we see a doctor when
we're sick? It's just like that. It's
okay not to be okay. It's
completely fine to be in a grey
space. It's okay to look into
your loved one's eyes with tears and
pooling in them.
It's okay to cry on someone's shoulder. Suicide isn't an option. Don't
build walls around you.
Pain demands to be felt
. It means you're alive
and it's both
a blessing and a curse.
Being alive
and breathing, you can bring
about a change.
It's ten steps
between you and a better
future. Take the first
one, the ground
might be loose,
your knees weak
, don't give
up. Then the
second, third..Go on.
Do you feel
it? The ground
is steadier. You're
doing good. You've
fought aesthetically. Don't you dare give up now.
I know it's difficult but just let someone in, and see the difference. No matter what,
you're never alone. "Your sole existence might
be someone else's
hope of living.

You matter.
Your every breath does.
Hold on, love.
I'm always here
for you. Always
and forever. Pinky
promise".

-Amina Afaq
1HK18IS007

NON TECHNICAL

HKBK IS MY SECOND HOME

HKBK College of Engineering has been my comfort place from the time I got the privilege to be a part of this institution it was probably one of the good decisions of joining in here. The college was established in the year 1997. The College's ethos is based on three core values: Discipline Determination and Dedication. These core values are embedded in each student of this institute. So far Life at HKBK has been very swiftly and exciting. The college has its charm which keeps me connected and builds a comfortable and enjoyable environment.Being far from my home doesn't bother me much now as I've completed my two years of tenure and this place has surely gather someplace in my heart. The levels of support which I have got from this place helped to brush up my personality. The right amount of mentoring keeps me always on the correct path. This college cultivated the audacity to make choices in every aspect of life whether be it related to career or life.The college opens a window of connectivity of bookish knowledge to the practical world. This college trends to channelize the professional ethics with personal ethics together. Just like home, HKBK nurtures the way of perceiving things with a unique vision that keeps my feet on the ground and head at the high. I'm very delightful about being a part of this institution.

-Tamim Ahmed
5th sem
(1HK17IS082)

The World Is Not A Place of Attachment

In this world there are a hundred exemplary lessons
but colour and smell
has rendered you blind.
Have you ever looked carefully that an inhabited
place which has now
become desolate.
The world is not a place of attachment. It is a place of lesson
and not
a show.
How the men of dignity mix with dust! How did the owner of a
home
become homeless!
How did the famous become effaced! How did the earth devour
the
sky!(the haughty)
The world is not a place of attachment. It is a
place of lesson and not a show.
How were the people attached to the earth! How many kings,
governments
and lords showed their authority but for few days! How many a
robust man did
not death subdue!
The world is not a place of attachment. It is a place of lesson
and not
a show.
Death did not leave Kisra or Darius. Even a conqueror like
Alexander,
was subdued by it. How did it take each person without
soothing any agony. All
their pomp, glory and retinue fell down helpless.
The world is not a place of attachment. It is a place of lesson
and not
a show.
Here every happiness is transformed into a hundred worries,
here places
of wedding are turned into places of mourning. These are the
changes of
universe from all sides. There is a change in yourself in every
breath.
The world is not a place of attachment. It is a place of lesson
and not
a show.
Initially, childhood blossomed and delighted you for several
years.
Thereafter, death made you mad. Then how did old age harass
you! Death will finally
annihilate you.
The world is not a place of attachment. It is a place of lesson
and not
a show.
Your only ambition is to remain most elevated and lofty-in-both
beauty
and fashion you should be unique. What? Does it behove a
person who is
predestined to die live in such a manner??! In reality, outward
and artificial
beauty has deceived you.
The world is not a place of attachment. It is a place of lesson
and not
a show.

Can it be a place of pleasure
and luxury when death is staring and waiting at every moment!
Now emerge from your ignorance and change your lifestyle
immediately.
The world is not a place of attachment. It is a place of lesson and
not
a show.
You love this transient world. Which amazing thing has made you
desirous? O Ignorant! Don't you possess sufficient intelligence?
Now you should
understand this matter well!
The world is not a place of attachment. It is a place of lesson and
not
a show.
Have you not received the message of death from old age yet?
Has it not
awakened, startled or cheeked you in the least bit? Is there any
limit to your
negligence? How long will it take you to return from the state of
insanity to
sanity?
The world is not a place of attachment. It is a place of lesson and
not
a show.
Neither will the lover of poetry remain nor will a lover of fame
remain.
None has remained nor will anyone remain. Only the
remembrance of good
deeds will remain.
The world is not a place of attachment. It is a place of lesson and
not
a show.
When most friends left this company and they are continuously
leaving
it, and when this scene is always vivid before you then why is your
heart
amused?
The world is not a place of attachment. It is a place of lesson and
not
a show.
In this world from somewhere the sound of mourning is heard;
from
elsewhere the cry of poverty is heard and somewhere the
complaint of
oppression, deceit and fraud is heard. In brief, from every side
only such
cries are heard.
The world is not a place of attachment. It is a place of lesson and
not
a show.

-Prof. SK Jamil Ahmed
Assistant Professor
Dept.of ISE

Modernization

Greeting with Namaste and Salam has changed to Hello,
No doubt they are seniors but still kids will bellow,

Conversations spiced up with slangs are nowadays trendy,
Youth have potential to conquer the world by being frenzy,

Wear a salwar-kameez a little loose they will categorize you in aunty,
Their eyes want to stare a girl wearing clothes perfectly runty,

People talking about honesty, real love, respect etc are called monks,
We youth adore people fantasizing about hunks and bonks,

Heart break, betrayal, crime are all in limelight,
We want right but we will like pages on insta, fb and will never fight,

Red lips, crop tops, make up girls are admired the most,
What about those faces who never wanted to change but did so to get a like on their post,

Ferrari, BMW, jaguar and posh,
Big house, beauty, king and queen Oh God! your desires around all this mosh,

Old is gold people said that to me,
I agree with all the 90's people and their words I believe,

Modernization has bought nothing good to me sometimes I feel,
Modernization is only the word but hearts are on the degrading wheel

Death

Nacked and clean like the baby will bleam,
Sleeping forever and forever we will dream,

From the womb of our mother we came without any sin,
To the tomb of the earth we are taking our world in kiln,

The joy we gave to the people around on our birth,
Are the ones who will flood the oceans on earth,

We paired our bonds with the people we love,
Our souls are going to remain with them till the anchor will dove,

Memories we made in the day we were born,
Memories are all that is going to remain which will get them out of their morn

-Sanna Qureshi
1HK16IS075
5th Sem

Beauty

Oh!!!,my dear gorgeous, the first
Sighjt of your flawless beauty is delighted
Moment of my life……
Your splendid face,seems to be charming
Full moon in the dark night…..,
The eyes that can fascinate love
Like blooming lotus……..,
Your lips,seems like a rose petals full of
Honey during crack of dawn….,
Your silky hair, beside the forehead,
Which increases richness of your beauty,
At a look of that moment, I lost myself in a strange ocean,
The style of your walk,God!!!!!,it
Is fortune……
Beauty !! to describe your beauty
There is no enough words in the bottom of my heart,
Forgive me dear.

-Bhavana S
(1HK18IS014)
3rd sem

Anthem of Hearts

Solemnly swearing every morning to dedicate yourself to the studies that one day we all will forgot,
The oaths of humble behaviour, kindness and utmost humanity that we worshiped, has become a curse now,
The blanket that protected our lives and we said we will protect, is degraded by our unfaithfulness,
So why? Why do we cry and mourn and abuse our miseries when we are the one who were not faithful to our books, our teachings, our teachers, the lessons our parents taught us..
We betrayed the Anthem that our heart once was singing dedicatedly.
And now, now we are under the burden of what we lied and disrespected

-Harsh Nanot
(1HK17IS026)
5rd sem

Happy Friendship Day

For this Friendship Day,
I have so many things to say.
Dont remember how we met in college,
And now we share a bond that others acknowledge...
She do have many friends,
And all i have is you on the other end.
And I know to her I'm nothing,
but to me she is everything.
Never knew would share such great bond with a senior,
and would become my partner in crime in such a short tenure.
we're about to complete a year together.
And in this time we share everything
On this Friendship Day I just wanted to say
i'm going to be always with you,forever.

-Shashikala
(1HK17IS071)
5th sem

Life

Life is like a mystery,
Who knows its history?
Life once wasted
Can never again be tasted;
People ignore their health
And die for wealth;
Life once destroyed can never be regained;
Life is full of joy and sorrow,
Which no one can borrow;
People are born to die
Yet,life goes on forever.

-Prema S
(1HK17IS056)
5th sem

KAJAL ACHA LAGTA HAI

KAJAL ACHA LAGTA HAI
Dhadhkane tezz ho rahi hai
rukk na jaaye kahi....
Dhek rha hu kitni hehri hai ye ankhen tumhari,
doob na jau kahi...

suno kajal acha lagta hai in
akhon me tumhari
rokk rha hu kuhud ko itna
ki aashiq tumhara mai ho na jaau kahi...

tumhe dhekna buss,ab in ankho se hoga nahi
dil kuch or hi zidd pr ada hai...
abaad kar du khudko ya barbaad ho jaau
us tootaan me jo tum me tehra hai...
ye ishq bepaak sa hai,
khuli hawa me fehla hua...
ek baar aur gusthaaki ho jaaye!
na jaane kyu ye dil baar baar keh rah hai!
koi shant sa shor ho tum...
Rath me sote waqt, jo ninde chura le,
hoon wali wali char ho tum...
Be --shaqq tumhara bhi kai
khwab to jarur hoga,
sochta hu wo khwaab khud kitna haseen
hoga,,,
jiska ek chhar ho tum...
koi taara ho asmaan ka,
ya khud ek chaand ka tukda ho....

mera dil tadap rha hai jaise
jaise tumhara, hi kai bhikhra tukkda ho...
tarrif tumhari munkin hi nahi
mai 'gulzar' bhi ho jaau chahe.....
mujhe arzoo hoti thi jiski
such kahun tum unhi koi adhoora bisra ho
suno!!!
kajal acha lagta hai,,
in ankhon me tumhari
in ankhon me tumhari

-Pallab Kundu
1HK16IS059
5th sem

Maan liya hum toot chuke hai

unki har ek yaad me roo chuke hai ,
lekin ab wo kisi aur ke ho chuke hai ,
hamari har ek bediya todh chuke hai,
hamare har ek nishaan kho chuke hai,
unhe ja ke bata do ki ham bhi unhe bhula chuke hai ,
unke bina jeena seekh chuke hai ,
ab bhi yaad unki aati h lekin ,
yadoon ko bhulana seekh chuke hai..

-Soham Kole
(1HK16IS086)

Aag lagi hai is dil me ,
aag bujhane ki pyaas nahi,
pyaas bujhane aaye toh bohot lekin,
kisi me ab wo baat nahi ..

-Soham Kole
(1HK16IS086)

ohabbat na hoti toh gazal kaun likhte,
ichad ke phool ko kamal kaun kehte
yaar toh ek khuda ka karishma hai ,
arna laash ke ghar ko tajmahalkaun kehte..

-Sayeema Ahmedi
(1HK17IS068)

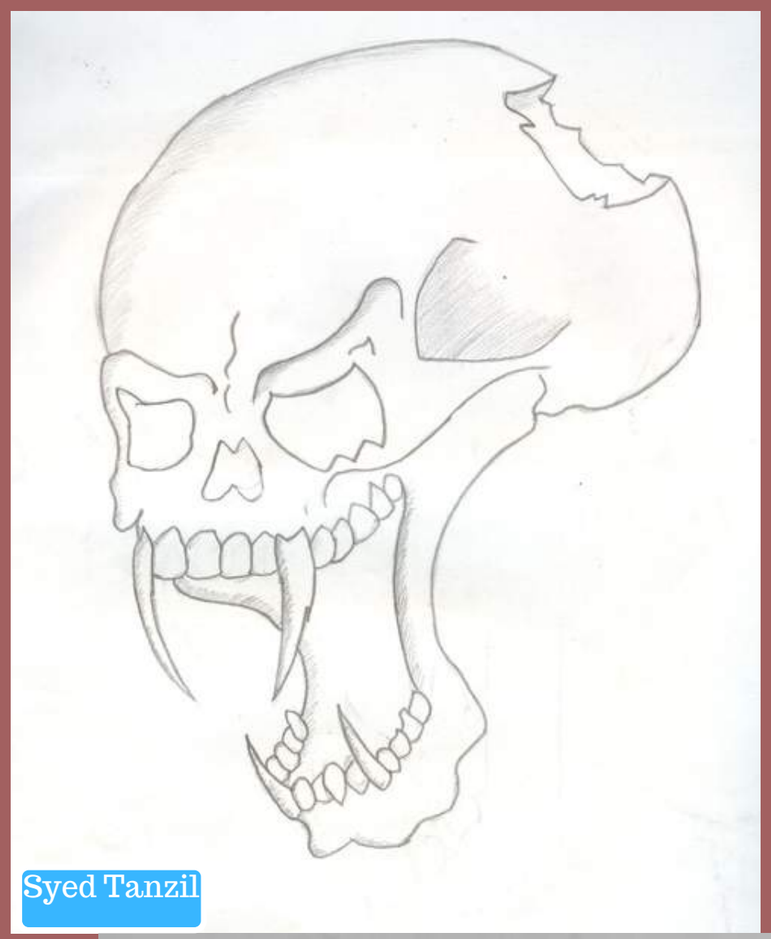
Unke ishq ke baagho me jaate hai hum sirf unki hawa ke liye ,
namaz hum neki ke liye nahi padhte,padhte hai to sirf unki dua ke liye ..

-Mohammed Zayn

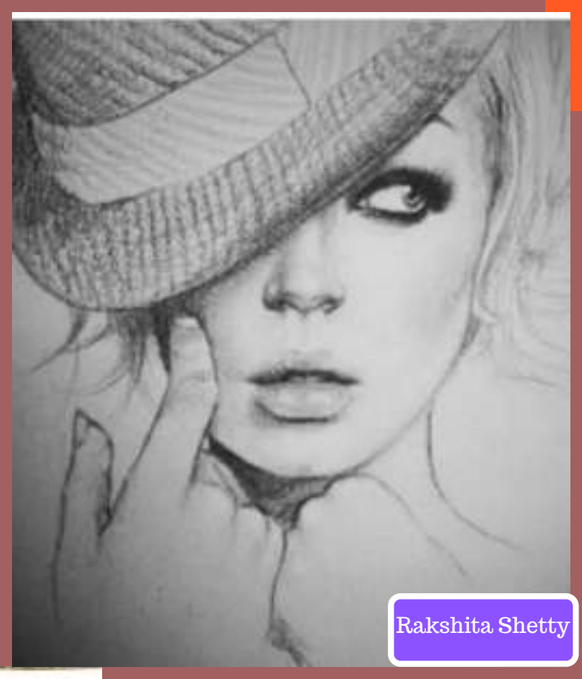
Tumhari yaad mujhe rulati hai ,
meri har galti ki yaad dilati hai,
unko apna maan kar chalti thi ,
fir bhi unke thukrane par rooti thi ,,
aaj bhi teri khushi me khush hoti hoon,
aur tere roone par aaj bhi aankhe bhar jaati hai ,
kambakht is dil se teri yaadein mit ti nahi ,
tujhe hamare dil se door karti nahi ...

-Syeda Hiba Jasmeen

Sketches & paintings


Syed Tanzil


Khaja Moinuddin

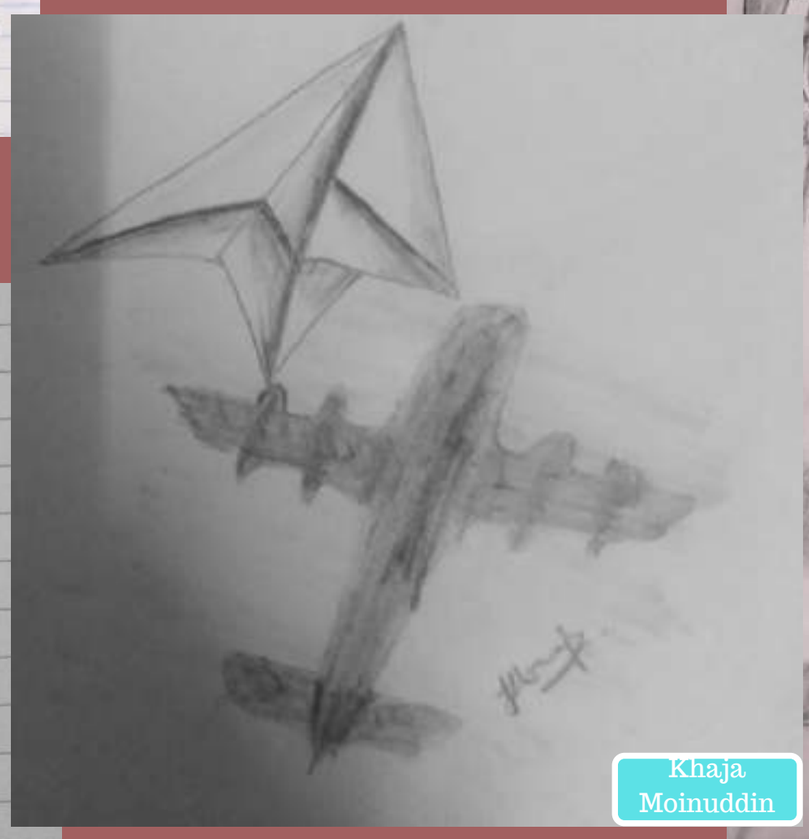

Rakshita Shetty

Syed Tanzil


Mohammed Sadiq


Sudeep Shetty


Khaja Moinuddin


Khaja Moinuddin

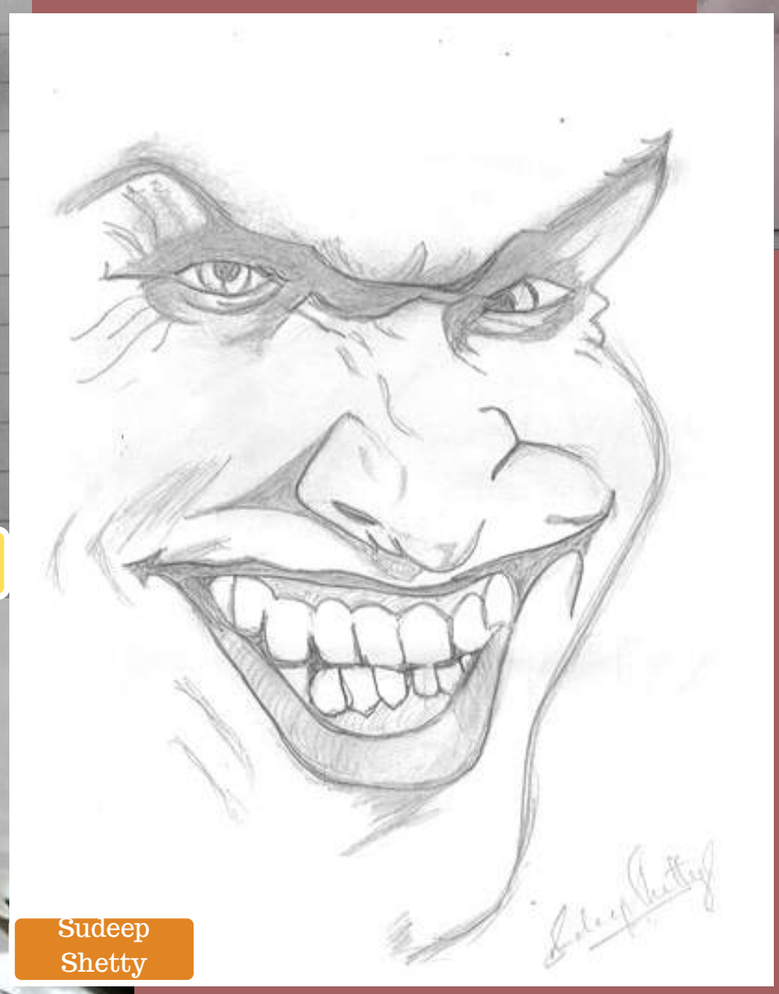

Sagar


Sayeema Ahmedi


Mohammed Sadiq

Bhagyashree Bisoi

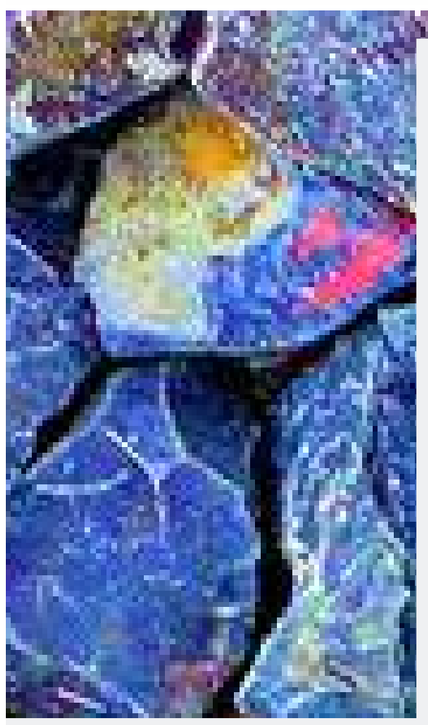

Khalid Ahmed

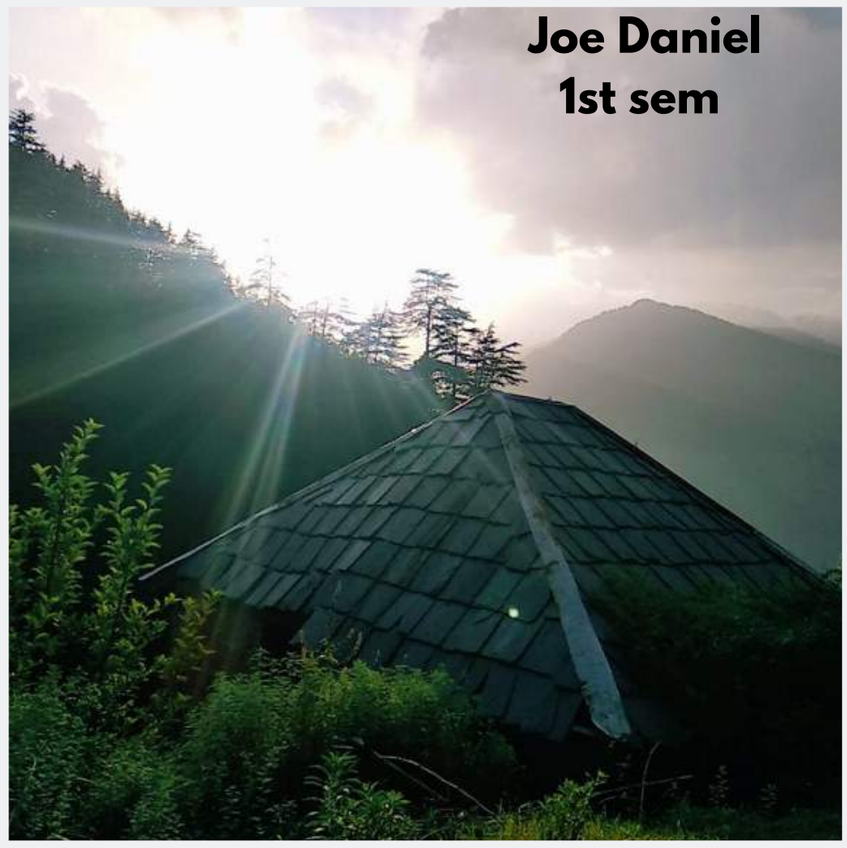

Sudeep Shetty


Aamira Fatima
1st sem

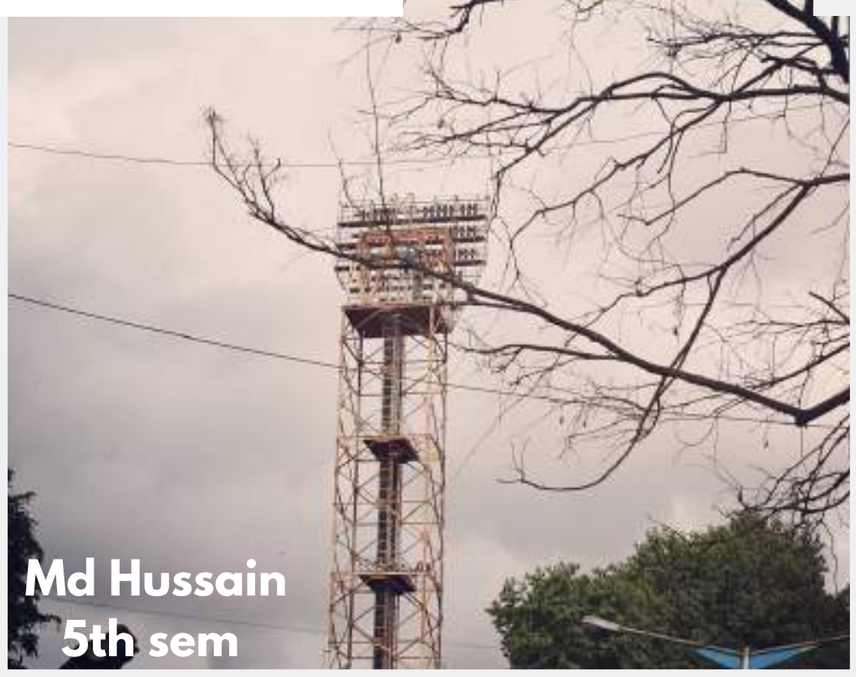

Nabil Ali
5th sem


Mohammed Zaafir
1st sem

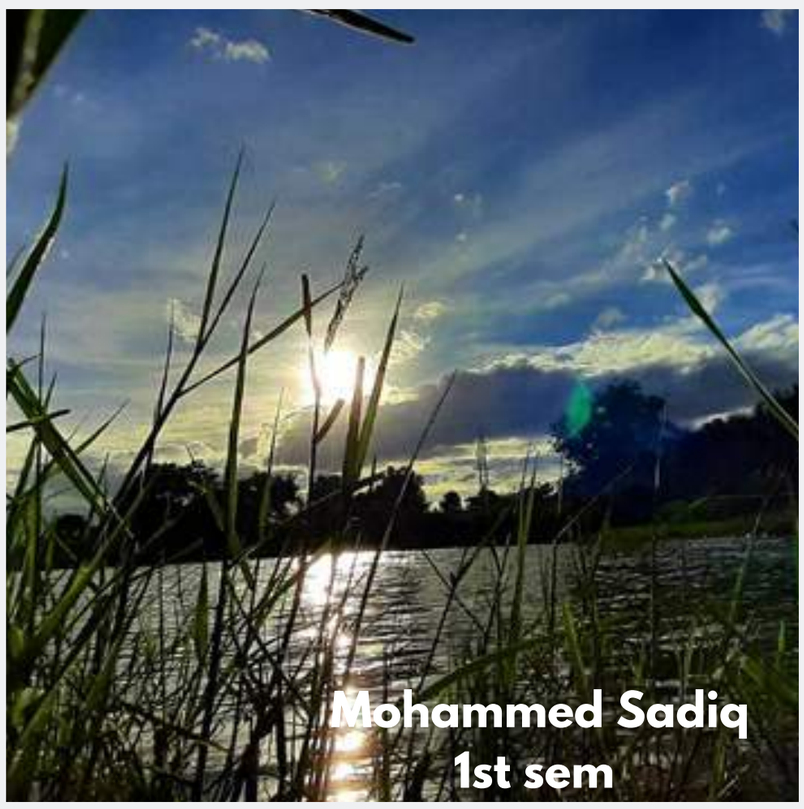


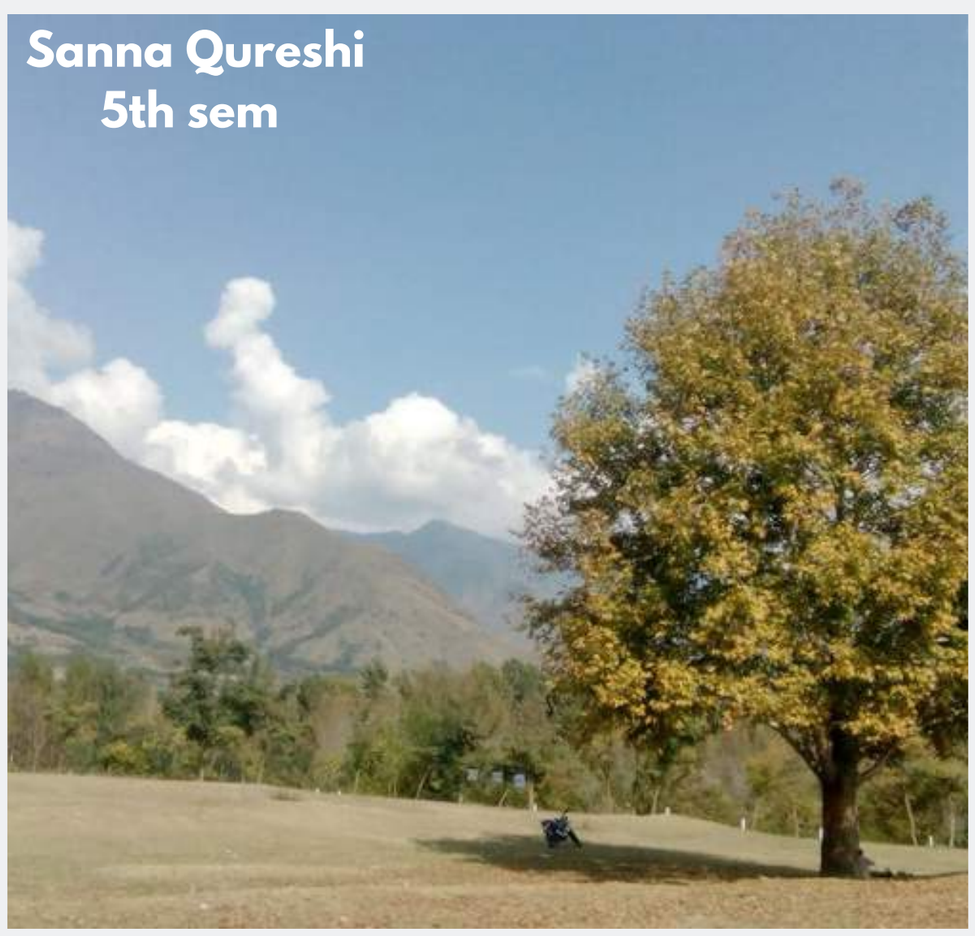

Joe Daniel
1st sem


Md Hussain
5th sem


Md Hussain
5th sem


Mohammed Sadiq
1st sem


Mohammed Sadiq
1st sem


Sanna Qureshi
5th sem

Technical Activites:

Student Development Programmes

On Network Simulation 2

Conducted on 21st & 22nd Aug,2019

Students got the information about Network Simulation tool and how it is applicable in real world under the guidance of Co-ordinator: Shagoufta Taskeen,Chandanita Chatterjee,and SK Jamil Ahmed Fom a resource person,Dr. Sandeep J From Christ University for a two day work shop.

On Java Database Connectivity

Conducted on 16th & 24th Aug,2019

Students got the information about JDBC using Oracle platform and how it is applicable in application developing under the guidance of Co-ordinator: Chandanita Chatterjee, Deepika Nair, Shagoufta Taskeen and Trainner : Souvik Chowdhury,who is Senior manager,for Oracle for a two day work shop.

From The Editorial Team

Reviving the worthwhile memories, loaded up with joy, pride and grace of the Department. This issue of 'SYRITz' features the inventive exertion of the students of our Department in their untiring moments in this institution. An enormous amount of work has gone into the development of this issue and we believe you will see that effort reflected in this volume. A heartily thank you to all the people who contributed in composing the inspiring articles , without which there wouldn't have been this newsletter issue.

Editorial Board:

Prof.Shagoufta Taskeen
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